

ENGINE DRIVEN WELDER / GENERATOR

AIR VANTAGE® 600-I



OUTPUT

CC CV DC

12 kW

INPUT

D

Powerful, Dependable and Advanced.

When the job calls for structural steel welding and other rugged outdoor work, you need an engine-driven welder that covers all your process needs – stick, MIG, TIG, flux-cored and gouging and is Tier 3 EPA compliant emission standard. The Air Vantage 600-I has been re-engineered to deliver smoother arc characteristics and improved pipe welding capabilities.

Choose the Air Vantage® 600-I for 575A/43VDC 100% duty cycle welding and gouging with up to 10mm carbons. The Air Vantage® 600-I includes a belt-driven VMAC® compressor with separate gauges to monitor compressor hours and pressure.

Processes

Stick, TIG, DC TIG, MIG, Flux-Cored, Gouging and Pulsed MIG (1).

Applications

Heavy Equipment Repair, Energy Utility Repair, Construction, General Fabrication and Mining.

Product Number

K4394-1A

(1) Requires ArLink Communications accessory.

WELDING TECHNOLOGY
SUPPLIERS OF WELDING AND ENGINEERING EQUIPMENT

The Lincoln Electric Company (Australia) Pty. Ltd.
35 Bryant Street Padstow NSW 2211 Australia
Ph: 1300 728 720 (AU) | 0800 728 720 (NZ)
www.lincolnelectric.com.au



Ph: 09 274 1246
info@weldingtechnology.co.nz
www.weldingtechnology.co.nz

LINCOLN
ELECTRIC

MACHINE SPECIFICATIONS

Product Name	Product Number	Rated Output @ 40°C Current/Voltage/Duty Cycle	Output @ 40°C - Welder and Generator			Dimensions H x W x D in (mm)	Net Weight (kg)
			Output Range	Open Circuit Voltage	Auxiliary Power [1]		
Air Vantage® 600-I Deutz®	K4394-1A	575A/43V/100% 600A/40V/60%	30 - 600 Amps CC/ CV 20 - 350 Amps TIG	60 Max OCV @ 1,800 RPM (<30V OCV when VRD is activated)	2 x 240 VAC [2] Single Phase: 7,200 WATTS, 60Hz.	Machine only 1,067 x 836 x 1,753 To top of exhaust tube: 1,290	807 (Approx.)

ENGINE SPECIFICATIONS

Product Name	Make/Model	Description	Speed (RPM)	kW @ Speed (RPM)	Displacement	Starting System	Capacities
Air Vantage® 600-I Deutz®	Deutz Turbo Charged [3] TD2.9L4 Diesel Engine TIER 3 Compliant	4 Cylinder 48 kW Turbo Charged Water Cooled Diesel Engine	High Idle 1,800 Low Idle 1,525	48 @ 1,800	2.9 L Bore x Stroke 92 mm x 110 mm	12VDC battery and Starter with Automatic Glow Plugs	Fuel: 95 L Oil: 8.5 L

COMPRESSOR SPECIFICATIONS

Product Name	Compressor Model	Description	Delivery	Maximum System Pressure	Compressor Protection	Capacities
Air Vantage® 600-I Deutz®	VMAC® [4] (S700162)	Belt-Drive Rotary Screw S700162	High Idle Mode: 28.3 LTR/SEC. @ 70 KG/CM (60 SCFM @ 100 PSI)	10.5 kg/cm ² (150 PSI)	Safety Relief Valve 14.1 kg/cm ² (200 PSI) High Temperature Automatic Shutdown 143°C	Compressor Oil: 4.0 L [5]

[1] When welding, available auxiliary power will be reduced. Output voltage is within +/- 10% at all loads up to rated capacity.
 [2] Circuits cannot be wired in parallel to operate the same device.
 [3] Deutz® engine warranty is 3 years.
 [4] Warranty is 3 years/3000 hours whichever comes first for the compressor and 1 year/1,000 hours whichever comes first for the clutch, idler roll and automatic belt tensioner.
 [5] VMAC® synthetic compressor oil recommended for best operation results, or oil approved by VMAC®.

A Superior Arc with a Superior Engine

Optimal arc performance

Take control of the arc and maximise the quality of your welds. These Air Vantage® models deliver the best arc in the industry with minimal spatter for stick or pipe welding. Expand your welding capabilities with customised modes for stainless, aluminium, steel and pulse welding. Pulsing enables better arc control in out-of-position work and can lower heat input for critical welds. Enhanced gouging performance prevents the engine from stalling, resulting in smooth material removal.

Industrial diesel engine

- 4 cylinder 48kw turbocharged Deutz® TD2.9L4 diesel engine runs smooth and quiet.
- Standard engine gauges allow you to monitor performance at a glance.
- Tier 3 engine does not require ultra-low sulfur diesel fuel.
- 95 litre fuel tank for longer running time.

Low maintenance, reliable operations

The Air Vantage® 600-I engine-driven welders contain less wiring and fewer connections than previous designs. The printed circuit boards are environmentally shielded using Lincoln Electric's engineered encapsulation and protective frame trays. Standard stainless steel roof, side panels and engine-access door deliver excellent protection, durability and corrosion resistance from the elements.



CUSTOMER ASSISTANCE POLICY

Lincoln Electric® business is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric® for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric® is not in a position to warrant or guarantee such advice and to the extent permitted by law assumes no liability, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given. The provision of information or advice does not create, expand or alter this warranty. Lincoln Electric® is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric® is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric® affect the results obtained in applying this type of fabrication methods and service requirements. Subject to Change – This information is accurate to the best of our knowledge at the time of printing.

The Lincoln Electric Company (Australia) Pty. Ltd.
 35 Bryant Street Padstow NSW 2211 Australia
 Ph: 1300 728 720 (AU) | 0800 728 720 (NZ)
 www.lincolnelectric.com.au



Ph: 09 274 1246
 info@weldingtechnology.co.nz
 www.weldingtechnology.co.nz

